

KANASTER

Revis
07.09

evision Date: 7.09.2022 SDS Number: S00060396650 This version replaces all previous versions.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	KANASTER
Design code	:	A13814D
Product Registration Number	:	MAPP20008
Unique Formula Identifier (UFI)	:	D495-20DH-G001-UY0Y

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	:	Herbicide
Recommended restrictions on use	:	professional use

1.3 Details of the supplier of the safety data sheet

Company	:	Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone	: +44 1484 538444
number	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2	H315: Causes skin irritation.
Skin sensitisation, Sub-category 1A	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Long-term (chronic) aquatic hazard,	H411: Toxic to aquatic life with long lasting effects.
Category 2	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :	:	
Signal word :	:	Warning
Hazard statements :	:	 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements :	:	Prevention:P201Obtain special instructions before use.P261Avoid breathing mist or vapours.P264Wash skin thoroughly after handling.P280Wear protective gloves/ protective clothing/ eyeprotection/ face protection/ hearing protection.
		Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.
		Disposal: P501 Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non- hazardous waste.

Hazardous components which must be listed on the label: pinoxaden (ISO) cloquintocet-mexyl

Additional Labelling

EUH401

To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
hydrocarbons, C10-C13, aromatics, <pre><1% naphthalene</pre>	64742-94-5	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 20 - < 25
2-methylpentane-2,4-diol	107-41-5 203-489-0 603-053-00-3	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 20 - < 30
pinoxaden (ISO)	243973-20-8 607-726-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute	>= 3 - < 10
cloquintocet-mexyl	99607-70-2	aquatic toxicity): 1 Acute Tox. 4; H332 Skin Sens. 1; H317 STOT RE 2; H373 (Urinary system, Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 1 - < 2.5
naphthalene	91-20-3 202-049-5 601-052-00-2	aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 0.1 - < 0.25



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			H410			
For e	explanation of abbreviat	tions see section 1	6.			
SECTIO	N 4: First aid measu	ires				
4.1 Desc	ription of first aid mea	isures				
Gen	eral advice	you when c	roduct container, label or Safety Data Sheet with calling the emergency number, a poison control hysician, or going for treatment.			
lf inh	naled	If breathing respiration. Keep patier	ictim to fresh air. i is irregular or stopped, administer artificial nt warm and at rest. ician or poison control centre immediately.			
In ca	ase of skin contact	Wash off in If skin irritat	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.			
In ca	ase of eye contact	for at least Remove co	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.			
lf sw	allowed	container o Do not indu	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.			
4.2 Most	important symptoms	and effects, both	acute and delayed			
Sym	ptoms	: Aspiration r	may cause pulmonary oedema and pneumonitis.			
4.3 Indica	ation of any immediat	e medical attentio	on and special treatment needed			
Trea	tment	Treat symp Do not indu	 There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. 			
SECTIO	N 5: Firefighting me	asures				
5 1 Evtin	guishing media					
	able extinguishing medi		ng media - small fires spray, alcohol-resistant foam, dry chemical or kide.			

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			Alcohol-resistant or Water spray	foam
Unsuita media	able extinguishing	:	Do not use a soli fire.	d water stream as it may scatter and spread
5.2 Special	hazards arising from	the	e substance or m	ixture
Specifi firefigh	c hazards during ting	:	will produce dens products of comb	ontains combustible organic components, fire se black smoke containing hazardous oustion (see section 10). omposition products may be a hazard to
5.3 Advice	for firefighters			
Specia for firef	l protective equipment ighters	:	Wear full protecti apparatus.	ve clothing and self-contained breathing
Furthe	r information	:	courses.	off from fire fighting to enter drains or water ainers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protect	ctive	e equipment and emergency procedures
Personal precautions	:	Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions		
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for cor	ntai	nment and cleaning up
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling :	No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
7.2 Conditions for safe storage, inc	luding any incompatibilities
Requirements for storage : areas and containers	No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
7.3 Specific end use(s)	
Specific use(s) :	For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrocarbons, C10-C13, aromatics, <1% naphthalene	64742-94-5	TWA	8 ppm 50 mg/m3	Supplier
2-methylpentane- 2,4-diol	107-41-5	TWA	25 ppm 123 mg/m3	GB EH40
		STEL	25 ppm 123 mg/m3	GB EH40
pinoxaden (ISO)	243973-20- 8	TLV-C	0.1 mg/m3	Syngenta
cloquintocet-mexyl	99607-70-2	TWA	1 mg/m3	Syngenta
naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	91/322/EEC
	Further inform	nation: Indicative	· -	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
naphthalene	91-20-3	1-hydroxypyrene: 4 µmol/mol creatinine (Urine)	After shift	GB EH40 BAT

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Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
tris(2-ethylhexyl) phosphate	Workers	Inhalation	Long-term systemic effects	350 mg/m3
	Workers	Inhalation	Acute systemic effects	2800 mg/m3
	Workers	Dermal	Long-term systemic effects	50 mg/kg
	Workers	Dermal	Acute systemic effects	40 mg/kg
	Consumers	Dermal	Acute systemic effects	200 mg/kg
	Consumers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Acute systemic effects	500 mg/m3
	Consumers	Inhalation	Long-term systemic effects	62.5 mg/m3
	Consumers	Oral	Acute systemic effects	200 mg/kg
	Consumers	Oral	Long-term systemic effects	25 mg/kg
hydrocarbons, C10- C13, aromatics, <1% naphthalene	Workers	Inhalation	Long-term systemic effects	151 mg/m3
· ·	Workers	Dermal	Long-term systemic effects	12.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	7.5 mg/kg
	Consumers	Oral	Long-term systemic effects	7.5 mg/kg
2-methylpentane-2,4- diol	Workers	Inhalation	Short-term exposure, Local effects	98 mg/m3
	Workers	Inhalation	Long-term systemic effects	14 mg/m3
	Workers	Inhalation	Long-term local effects	49 mg/m3
	Workers	Dermal	Long-term systemic effects	2 mg/kg
	Consumers	Inhalation	Short-term exposure, Local effects	49 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Consumers	Inhalation	Long-term local effects	25 mg/m3
	Consumers	Oral	Long-term systemic effects	1 mg/kg
	Consumers	Dermal	Long-term systemic effects	1 mg/kg





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castor oil, ethoxylated	Workers	Inhalation	Long-term systemic effects	16.4 mg/m3
	Workers	Dermal	Long-term systemic effects	4.67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m3
	Consumers	Dermal	Long-term systemic effects	1.67 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
cloquintocet-mexyl	Industrial use	Dermal	Long-term exposure, Systemic effects	3.33 mg/kg
	Industrial use	Inhalation	Long-term exposure, Systemic effects	0.303 mg/m3
naphthalene	Workers	Inhalation	Long-term systemic effects	25 mg/m3
	Workers	Inhalation	Long-term local effects	25 mg/m3
	Workers	Dermal	Long-term systemic effects	3.57 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
tris(2-ethylhexyl) phosphate	Sewage treatment plant	1 mg/l
2-methylpentane-2,4-diol	Fresh water	0.429 mg/l
	Marine water	0.0429 mg/l
	Fresh water sediment	1.79 mg/kg
	Marine sediment	0.179 mg/kg
	Soil	0.11 mg/kg
castor oil, ethoxylated	Fresh water sediment	0.0129 mg/kg dry weight (d.w.)
	Marine sediment	0.00129 mg/kg dry weight (d.w.)
	Soil	0.00258 mg/kg dry weight (d.w.)
cloquintocet-mexyl	Fresh water	0.0018 mg/l
	Fresh water sediment	0.934 mg/kg dry weight (d.w.)
	Marine water	0.00018 mg/l
	Marine sediment	0.0934 mg/kg dry weight (d.w.)
	Soil	0.463 mg/kg dry weight (d.w.)
naphthalene	Fresh water	0.0024 mg/l
	Marine water	0.0024 mg/l
	Sewage treatment plant	2.9 mg/l
	Fresh water sediment	0.0672 mg/kg
	Marine sediment	0.0672 mg/kg
	Soil	0.0533 mg/kg

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8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye/face protection Hand protection	:	No special protective equipment required.
Material Break through time Glove thickness	::	Nitrile rubber > 480 min 0.5 mm
Remarks	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing
Respiratory protection	:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Protective measures	:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold		clear to slightly turbid, liquid light yellow to brown aromatic No data available
рН	:	4.3 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	102 °C Method: Pensky-Martens closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Vapour pressure Relative vapour density	:	No data available No data available
	::	
Relative vapour density	:	No data available 0.965 g/cm3
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n-	:	No data available 0.965 g/cm3
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n- octanol/water	:	No data available 0.965 g/cm3 No data available
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n- octanol/water	:	No data available 0.965 g/cm3 No data available No data available 375 °C
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n- octanol/water Auto-ignition temperature	:	No data available 0.965 g/cm3 No data available No data available 375 °C
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity	:	No data available 0.965 g/cm3 No data available No data available 375 °C No data available
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity	:	No data available 0.965 g/cm3 No data available No data available 375 °C No data available 55 mPa.s (20 °C)
Relative vapour density Density Solubility(ies) Solubility in other solvents Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity Viscosity, dynamic	:	No data available 0.965 g/cm3 No data available No data available 375 °C No data available 55 mPa.s (20 °C) 24 mPa.s (40 °C)



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Oxidi	zing properties	:	The substance or mixture is not classified as oxidizing.
9.2 Other	information		
Surfa	ce tension	:	38.5 mN/m, 20 °C
Partic	cle size	:	No data available
SECTION	N 10: Stability and rea	icti	vity
I 0.1 Reac None	tivity reasonably foreseeable		
	nical stability e under normal condition	s.	
10.3 Poss	sibility of hazardous rea	ctio	ons
Haza	rdous reactions	:	No dangerous reaction known under conditions of normal use
0.4 Cond	ditions to avoid		
Cond	itions to avoid	:	No decomposition if used as directed.
0.5 Inco	mpatible materials		
Mate	rials to avoid	:	None known.
I0.6 Haza	rdous decomposition p	oroc	lucts
Haza produ	rdous decomposition ucts	:	No hazardous decomposition products are known.
SECTION	N 11: Toxicological in	for	mation
1.1 Infor	mation on toxicologica	l eff	fects
Inforr expo	nation on likely routes of	:	Ingestion Inhalation
CAPO.	5010		Skin contact Eye contact
Acut	e toxicity		
	uct:		
Prod			LD50 (Rat, female): > 2,000 mg/kg
	e oral toxicity	•	Assessment: The substance or mixture has no acute oral toxicity
Acute	e oral toxicity e inhalation toxicity	:	toxicity Acute toxicity estimate: > 5 mg/l
Acute		:	toxicity



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Acute	dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Comp	onents:		
2-meth	ylpentane-2,4-diol:		
Acute	oral toxicity	:	LD50 Oral (Rat): 2,000 mg/kg
Acute	dermal toxicity	:	LD50 Dermal (Rat): 2,000 mg/kg
pinoxa	aden (ISO):		
Acute	oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
			Acute toxicity estimate: 500 mg/kg Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Acute i	nhalation toxicity	:	LC50 (Rat, male): 4.63 mg/l Exposure time: 4 h Test atmosphere: dust/mist
			Acute toxicity estimate: 4.63 mg/l Test atmosphere: dust/mist Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Acute	dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
cloqui	ntocet-mexyl:		
Acute	oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute i	nhalation toxicity	:	LC50 (Rat, male and female): > 0.935 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Highest attainable concentration
Acute	dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
naphti	nalene:		
-	oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.



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Skin corrosion/irritation						
Prod	<u>uct:</u>					
Speci		: Rabbit				
Resu	lt	: Irritating to skin.				
<u>Com</u>	ponents:					
hydro	ocarbons, C10-C13,	aromatics, <1% naphthalene:				
Resu	lt	: Repeated exposure may cause skin dryness or cracking.				
	thylpentane-2,4-diol	:				
Speci		: Rabbit				
Resu	IT	: Irritating to skin.				
-	kaden (ISO):					
Metho		: Based on Human Evidence				
Resu	IT	: Irritating to skin.				
cloquintocet-mexyl:						
Speci Resu		: Rabbit : No skin irritation				
Serious eye damage/eye		irritation				
Prod Speci		: Rabbit				
Resu		: No eye irritation				
<u>Com</u>	ponents:					
2-me	thylpentane-2,4-diol	:				
Speci		: Rabbit				
Resu	lt	: Irritation to eyes, reversing within 21 days				
-	kaden (ISO):					
Speci Resu	ies	: Rabbit				
Resu		: Irritation to eyes, reversing within 21 days				
cloqu	lt uintocet-mexyl:					
cloqı Speci	lt uintocet-mexyl: ies	: Rabbit				
cloqu	lt uintocet-mexyl: ies					
cloqu Speci Resu Resp	lt uintocet-mexyl: ies It iratory or skin sens	: Rabbit : No eye irritation				
cloqı Speci Resu	lt uintocet-mexyl: ies It iratory or skin sens <u>uct:</u>	: Rabbit : No eye irritation				



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	Species Result	3	:	Guinea pig The product is a skin sensitiser, sub-category 1A.
<u>(</u>	Compo	nents:		
-	pinoxa Test Ty Species Result		::	mouse lymphoma cells Mouse The product is a skin sensitiser, sub-category 1A.
I	Test Ty Result Remark		:	Respiratory sensitisation Does not cause respiratory sensitisation. Experience with human exposure
	cloquir Species Result	itocet-mexyl:	:	Guinea pig May cause sensitisation by skin contact.
(Germ c	ell mutagenicity		
9	Compo	nents:		
(ylpentane-2,4-diol: ell mutagenicity- ment	:	In vitro tests did not show mutagenic effects
(den (ISO): ell mutagenicity- ment	:	Animal testing did not show any mutagenic effects.
(-	itocet-mexyl: ell mutagenicity- ment	:	Animal testing did not show any mutagenic effects.
(Carcino	ogenicity		
9	Compo	nents:		
(ylpentane-2,4-diol: genicity - ment	:	Weight of evidence does not support classification as a carcinogen
(den (ISO): igenicity - ment	:	No evidence of carcinogenicity in animal studies.
(-	tocet-mexyl: genicity - ment	:	No evidence of carcinogenicity in animal studies.
	n aphth Carcino	alene: genicity -	:	Limited evidence of carcinogenicity in animal studies

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Assessment	
Reproductive toxicity	
Components:	
2-methylpentane-2,4-diol:	
Reproductive toxicity - Assessment	: No toxicity to reproduction
pinoxaden (ISO):	
Reproductive toxicity - Assessment	: No toxicity to reproduction
cloquintocet-mexyl:	
Reproductive toxicity - Assessment	: No toxicity to reproduction
STOT - single exposure	
Components:	
pinoxaden (ISO):	
Assessment Remarks	 Based on Human Evidence, The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. Breathing difficulties
	Cough Acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.
cloquintocet-mexyl:	
Assessment	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Components:	
pinoxaden (ISO):	
Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
cloquintocet-mexyl:	
Target Organs Assessment	 Urinary system, Liver The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Aspiration toxicity	

Product:

No aspiration toxicity classification

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Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 19 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.8 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 32 mg/l Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 5.5 mg/l End point: Growth rate Exposure time: 72 h

Components:

hydrocarbons, C10-C13, arom	na	tics, <1% naphthalene:
Toxicity to fish :	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.
Toxicity to daphnia and other : aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 1.1 mg/l Exposure time: 48 h Remarks: Information given is based on data obtained from similar substances.
Toxicity to algae/aquatic : plants	:	EL50 (Raphidocelis subcapitata (freshwater green alga)): 7.9 mg/l End point: Growth rate Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.
		NOELR (Raphidocelis subcapitata (freshwater green alga)): 0.22 mg/l End point: Growth rate Exposure time: 72 h



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				Remarks: Information similar substances.	given is based on data obtained from	
E	Ecotoxic	ology Assessment				
C	Chronic a	equatic toxicity	:	Toxic to aquatic life w	ith long lasting effects.	
p	oinoxade	en (ISO):				
Т	Foxicity to	o fish	:	LC50 (Oncorhynchus Exposure time: 96 h	mykiss (rainbow trout)): 10.3 mg/l	
		o daphnia and other overtebrates	:	EC50 (Daphnia magn Exposure time: 48 h	a (Water flea)): 52 mg/l	
	Foxicity to plants	o algae/aquatic	:	ErC50 (Raphidocelis s mg/l Exposure time: 72 h	subcapitata (freshwater green alga)): 3.6	
				ErC50 (Skeletonema Exposure time: 72 h	costatum (marine diatom)): 1.72 mg/l	
				NOEC (Skeletonema End point: Growth rate Exposure time: 96 h	costatum (marine diatom)): 0.94 mg/l e	
				NOEC (Lemna gibba End point: Growth rate Exposure time: 7 d	(gibbous duckweed)): 0.73 mg/l e	
	M-Factor oxicity)	(Acute aquatic	:	1		
	Foxicity to oxicity)	o fish (Chronic	:	NOEC: 6.6 mg/l Exposure time: 28 d Species: Oncorhynch	us mykiss (rainbow trout)	
c	loquinto	ocet-mexyl:				
	Foxicity to	•	:	LC50 (Oncorhynchus Exposure time: 96 h	mykiss (rainbow trout)): > 0.97 mg/l	
				LC50 (Gobiocypris rai Exposure time: 96 h	rus (rare gudgeon)): 0.102 mg/l	
		o daphnia and other overtebrates	:	EC50 (Daphnia magn Exposure time: 48 h	a (Water flea)): > 0.82 mg/l	
	Foxicity to plants	o algae/aquatic	:	ErC50 (Desmodesmu Exposure time: 72 h	s subspicatus (green algae)): > 2.2 mg/l	
				NOEC (Desmodesmu End point: Growth rate Exposure time: 72 h	is subspicatus (green algae)): 0.12 mg/l e	

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	M-Fact toxicity	or (Acute aquatic)	:	1	
	Toxicity	/ to microorganisms	:	EC50 (activated s Exposure time: 3	ludge): > 1,000 mg/l h
	aquatic	/ to daphnia and other invertebrates ic toxicity)	:	NOEC: > 0.437 m Exposure time: 21 Species: Daphnia	d
	M-Fact toxicity	or (Chronic aquatic)	:	1	
	naphth	alene:			
	Ecotox	cicology Assessment			
	Acute a	aquatic toxicity	:	Very toxic to aqua	tic life.
	Chronic	c aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
12.2		tence and degradabili	ity		
	Compo	onents:			
	-	arbons, C10-C13, aro	ma	· · ·	
	Biodeg	radability	:	Result: Readily bi	odegradable.
	2-meth	ylpentane-2,4-diol:			
		radability	:	Result: Readily bi	odegradable.
	pinoxa	den (ISO):			
	Biodeg	radability	:	Result: rapidly deg	gradable
	Stabilit	y in water	:	Degradation half I Remarks: Product	
	cloquii	ntocet-mexyl:			
	-	radability	:	Result: Not readily	/ biodegradable.
	Stabilit	y in water	:	Degradation half I Remarks: Product	
12.:	3 Bioaco	cumulative potential			
	Compo	onents:			
	pinoxa	den (ISO):			
	Bioacc	umulation	:	Remarks: Low bio	accumulation potential.



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clo	quintocet-mexyl:						
	accumulation	:	: Remarks: Does not bioaccumulate.				
	rtition coefficient: n- anol/water	:	log Pow: 5.24 (25	°C)			
12.4 Mo	bility in soil						
<u>Co</u>	mponents:						
pin	oxaden (ISO):						
	tribution among vironmental compartments	:	Remarks: Modera	ately mobile in soils			
	bility in soil	:	Dissipation time:	0.1 - 1.8 d			
			Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.				
clo	quintocet-mexyl:						
	tribution among vironmental compartments	:	Remarks: immob	le			
	bility in soil	:	: Dissipation time: 2.4 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.				
12.5 Re	sults of PBT and vPvB as	se	ssment				
Pro	oduct:						
Ass	sessment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			
<u>Co</u>	mponents:						
2-n	nethylpentane-2,4-diol:						
Ass	sessment	:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating			
pin	oxaden (ISO):						
-	sessment	:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating			
clo	quintocet-mexyl:						
	sessment	:	bioaccumulating a	not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating			

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na	phthalene:		
As	sessment	bioaccumulatin	is not considered to be persistent, g and toxic (PBT) This substance is not e very persistent and very bioaccumulating
12.6 Ot	her adverse effects		
<u>Pr</u>	oduct:		
	docrine disrupting tential	considered to h to REACH Artic	Imixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

-		
	Product	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
	Contaminated packaging	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number ADR : UN 3082 RID : UN 3082 IMDG : UN 3082 ΙΑΤΑ : UN 3082 14.2 UN proper shipping name ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, RID : N.O.S.



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IMDG		:	ENVIRONMENTAL N.O.S.	MEXYL AND SOLVENT NAPHTHA) LY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		:	Environmentally ha	MEXYL AND SOLVENT NAPHTHA) zardous substance, liquid, n.o.s. MEXYL AND SOLVENT NAPHTHA)
14.3 Trans	port hazard class(es)			
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packir	ng group			
Classif Hazaro Labels	g group ication Code d Identification Number l restriction code	:	III M6 90 9 (-)	
Classif	g group ication Code I Identification Number	:	III M6 90 9	
IMDG Packin Labels EmS C		:	III 9 F-A, S-F	
Packin aircraft Packin	g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
Packin (passe Packin	Passenger) g instruction nger aircraft) g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
	onmental hazards			
ADR Enviro	nmentally hazardous	:	yes	
RID	nmentally hazardous	:	yes	

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IMDG			

Marine pollutant	:	yes
IATA (Passenger) Environmentally hazardous	:	yes
IATA (Cargo) Environmentally hazardous	:	yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	 Conditions of restriction for the following entries should be considered: Number on list 3 N-methyl-2-pyrrolidone (Number on list 72, 71, 30)
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable
Control of Major Accident Hazards Regulations E2 2015 (COMAH)	ENVIRONMENTAL HAZARDS

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

H228 :	Flammable solid.
H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.

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H332 H335 H351 H361 H373 H400	d		Suspected of of Suspected of of	spiratory irritation. causing cancer. damaging the unborn child. mage to organs through prolonged or repeated		
	H410		Very toxic to aquatic life with long lasting effects.			
H411			Toxic to aquatic life with long lasting effects.			
H412		:	: Harmful to aquatic life with long lasting effects.			
Full t	ext of other abbrev	viations				
Acute	e Tox.	:	Acute toxicity			
Aquatic Acute		:	Short-term (acute) aquatic hazard			
Aquatic Chronic		:	Long-term (chronic) aquatic hazard			
Asp. Tox.		:	Aspiration hazard			
Carc.		:	Carcinogenicit	У		
Eye I	rrit.	:	Eye irritation			
Flam	. Sol.	:	Flammable so	lids		
Repr		:	Reproductive	toxicity		
Skin	Irrit.	:	Skin irritation			
Skin	Sens.	:	Skin sensitisat	ion		
STOT RE		:	Specific target	organ toxicity - repeated exposure		
STOT SE		:	Specific target organ toxicity - single exposure			
91/32	91/322/EEC : Europe. Commission Directive 91/322/EEC on establis					
			indicative limit			
GB E		:		L - Workplace Exposure Limits		
GB EH40 BAT		:	UK. Biological monitoring guidance values			
91/322/EEC / TWA		:	Limit Value - e			
GB EH40 / TWA				osure limit (8-hour TWA reference period)		
GB EH40 / STEL :			Short-term exp	oosure limit (15-minute reference period)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic



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Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Skin Irrit. 2	H315	Based on product data or assessment
Skin Sens. 1A	H317	Based on product data or assessment
Repr. 2	H361d	Calculation method
Aquatic Chronic 2	H411	Calculation method

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